**Dow’s Fluidized Catalytic Dehydrogenation (FCDh) Process**

Feedstock Flexibility, Product Selectivity & Cost Advantage

Patented circulating fluid bed technology for dehydrogenation and catalyst regeneration

- Lower energy cost: **20% reduction**
- Lower capital outlay: **25% less capital** (including catalyst)
- Lower emissions: **Reduced NOx and CO₂ emissions**

**Innovation with benefits:**

**Based on proven Fluidized Catalytic Cracking (FCC) technology for reliable production**
- FCC plants routinely operate 4-6 years between turnarounds
- Catalyst can be continuously replaced as needed

**Flexibility that:**
- Makes it one of the most economical propane dehydrogenation technologies that can integrate with a cracker
- Enables plants to scale down at attractive capital intensity
- Provides “plug and play” reactor capabilities for multiple plant configurations

**Confidence based on more than 17 years of FCDh experience**
- One of the largest producers of ethylene in the world
- Proven process and catalyst R&D competencies
- Sought after licensor

**For licensing information, contact:**
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